

Title (en)  
PLANT CYTOCHROME P450

Title (de)  
PFLANZEN CYTOCHROME P450

Title (fr)  
PLANTE DE CYTOCHROME P450

Publication  
**EP 3121193 B1 20211027 (EN)**

Application  
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Priority  
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Abstract (en)  
[origin: WO2012010872A2] This disclosure relates to the isolation and sequencing of nucleic acid molecules that encode cytochrome P450 polypeptides from a Papaver somniferum cultivar; uses in the production of noscapine and identification of poppy cultivars that include genes that comprise said nucleic acid molecules.

IPC 8 full level  
**C07K 14/415** (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP US)  
**A01H 3/04** (2013.01 - US); **C07K 14/415** (2013.01 - EP US); **C12N 7/00** (2013.01 - US); **C12N 9/0071** (2013.01 - EP US); **C12N 9/0077** (2013.01 - EP US); **C12N 15/67** (2013.01 - US); **C12N 15/8218** (2013.01 - US); **C12N 15/8243** (2013.01 - EP US); **C12N 15/8251** (2013.01 - US); **C12P 17/188** (2013.01 - US); **C12Q 1/6876** (2013.01 - US); **C12Y 114/00** (2013.01 - EP US); **C12Q 2600/156** (2013.01 - US); **C12Q 2600/158** (2013.01 - US)

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**WO 2012010872 A2 20120126; WO 2012010872 A3 20120329**; AU 2011281312 A1 20130110; AU 2011281312 B2 20141218; CA 2803137 A1 20120126; CA 2803137 C 20210223; CA 3044433 A1 20120126; CA 3044433 C 20231219; CA 3044439 A1 20120126; CA 3044439 C 20231219; EP 2596012 A2 20130529; EP 2596012 B1 20171206; EP 3121193 A2 20170125; EP 3121193 A3 20170412; EP 3121193 B1 20211027; EP 3992203 A1 20220504; ES 2664569 T3 20180420; ES 2905123 T3 20220407; NZ 604057 A 20141224; NZ 700181 A 20160624; NZ 719881 A 20161223; US 10385354 B2 20190820; US 10844391 B2 20201124; US 11312973 B2 20220426; US 2013133105 A1 20130523; US 2016032305 A1 20160204; US 2017198299 A1 20170713; US 2017369896 A2 20171228; US 2019161764 A1 20190530; US 2021095301 A1 20210401; US 9200261 B2 20151201; US 9725732 B2 20170808

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